



AMENDMENTS TO THE CLAIMS

1. (Currently Amended) Method for preventing signal coupling between two or more chip-based mounted piezoelectric resonator sensors ($G';G''$) used in an electrically conductive flow-through liquid in a sensor system wherein the sensors are connected in series or parallel and each sensor ($G';G''$) has a flowcell body ($C';C''$) provided with its own resonator ($3';3''$) connected to its own oscillator circuit ($29';29''$) and its own power supply ($35';35''$), characterized by the steps of comprising:

-providing each sensor ($G';G''$) with its own, individual conducting shield ($44';44''$) which substantially surrounds said ~~oscillator circuit ($29';29''$)~~ flowcell body, and by connecting said conducting shield ($44';44''$) being connected to one pole of the power supply ($35';35''$); and making an inner wall of a flow tube connecting each cavity out of a non-conducting material.

2. (Canceled)

3. (Currently Amended) Method in accordance with claim 1 ~~or 2~~ characterized in that ~~the step of providing each sensor ($G';G''$) with its own, individual conducting shield ($44';44''$) which substantially surrounds said sensor ($G';G''$) comprises the steps of making a wherein said flowcell body ($C';C''$) is made out of a non-conducting material and coating substantially all of the outer surfaces of said flowcell with a conducting material.~~

4. (Canceled)

5. (Currently Amended) Piezoelectric resonator sensor comprising:

-a body ~~(C';C'')~~ comprising a resonator ~~(3';3'')~~ connected to an oscillator circuit ~~(29';29'')~~; and

a power supply ~~(35';35'')~~ characterised in that said oscillator circuit ~~(29';29'')~~, wherein said body is substantially surrounded by a conducting shield (44';44'') which shield ~~(44';44'')~~ is connectable to one pole of the power supply ~~(35';35'')~~, and wherein an inner wall of a cavity, an inlet channel and an outlet channel are insulated by said shield.

6. (Canceled)

7. (Canceled)

8. (New) Sensor in accordance with claim 5, wherein said body is made of a non-conducting material.